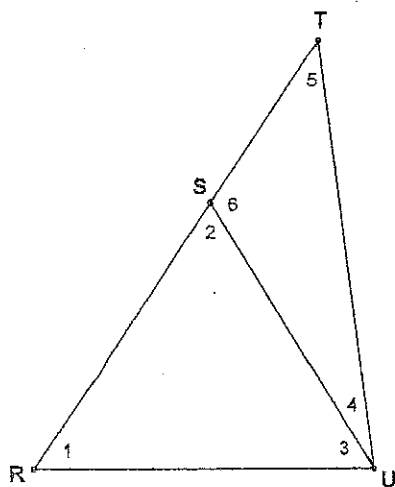


Classwork 1-6 Angles

Refer to the figure below and answer the following questions.



1. List all of the angles that have S as a vertex.

2. Name a straight angle.

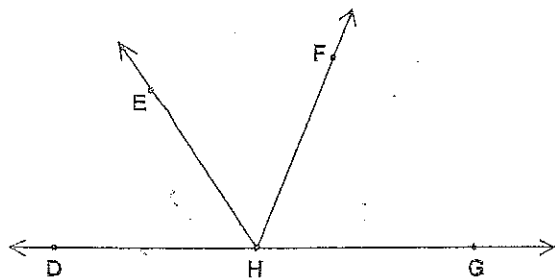
3. Name an obtuse angle.

4. Does $\angle SRU$ appear to be obtuse, straight, right, or acute?

6. If $m\angle 3 = 48^\circ$ and $m\angle 4 = 23^\circ$, then find $m\angle RUT$.

7. If $m\angle 6 = 177^\circ$, then find $m\angle 2$.

Refer to the figure below and answer the following questions.



8. If $m\angle EHF = 61^\circ$, $m\angle FHG = 2x$, and $m\angle EHG = 133^\circ$, then solve for x .

9. If $m\angle DHF = 109^\circ$ and $m\angle FHG = x - 8$, then solve for x .

10. If \overline{HE} bisects $\angle DHF$, $m\angle DHE = 5x - 10$, $m\angle FHE = 2x + 35$, then find x and $m\angle DHE$.

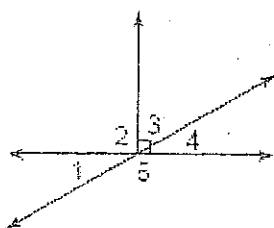
11. If $m\angle EHF = 2x - 9$, $m\angle FHG = 3x + 12$, and $m\angle EHG = 2x + 78$, then solve for x and $m\angle EHG$.

$x =$ _____ $m\angle DHE =$ _____

$x =$ _____ $m\angle EHG =$ _____

Classwork 1-7 Pairs of Angles

Using the figure below list all of the following that apply to each pair of angles:
adjacent, vertical, complimentary, supplementary, and linear pair



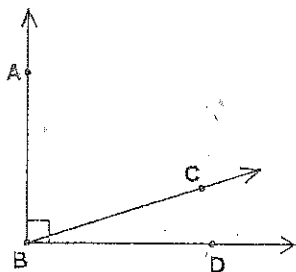
1. $\angle 1$ and $\angle 2$

2. $\angle 1$ and $\angle 4$

3. $\angle 4$ and $\angle 5$

4. $\angle 1$ and $\angle 5$

Refer to the figure below and answer the following questions.



5. If $m\angle ABC = 71^\circ$, then find $m\angle CBD$.

6. If $m\angle DBC = 23^\circ$, then find $m\angle CBA$.

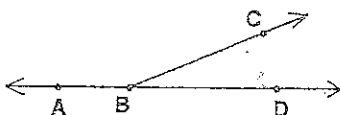
7. If $m\angle ABD = 2x - 7$, then find x .

8. If $m\angle ABC = 3x + 12$ and $m\angle CBD = x - 8$, then find x .

$x =$ _____

$x =$ _____

Refer to the figure below and answer the following questions.



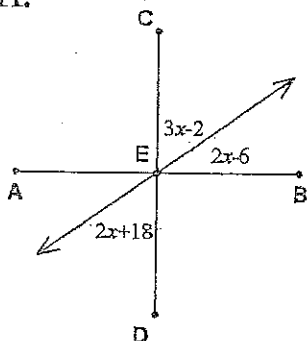
9. If $m\angle ABC = 136^\circ$, then find $m\angle CBD$.

10. If $m\angle ABC = 7x - 3$ and $m\angle CBD = 2x + 12$, then find x .

$x =$ _____

Find x and determine if $\overline{AB} \perp \overline{CD}$.

11.



12.

